

*\*CORRECTED\**

**HAT**

**INCIDENT**

**CA-SHU-008470**

**INCIDENT ACTION PLAN**



**OPERATIONAL PERIOD**

**8/12/2018 0700**

**to**

**8/13/2018 0700**



# INCIDENT OBJECTIVES (ICS 202)

<b>1. Incident Name:</b> <div style="text-align: center;">Hat</div>	<b>2. Operational Period:</b>	Date From: 8/12/2018 Time From: 0700	Date To: 8/13/2018 Time To: 0700
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**3. Objective(s):**

**Management Objectives**

- Provide for emergency personnel and public safety at all times.
- Protect property, improvements, and infrastructure.
- Ensure repopulation takes place in a quick, efficient, and effective manner.
- Ensure coordinated, timely and accurate release of public information.
- Foster and maintain relationships with all cooperators and stakeholders.
- Protect economic, natural, cultural and heritage resources.
- Maintain fiscal accountability and keep costs commensurate with values at risk.

**Control Objectives**

- Keep the fire East of Hat Creek.
- Keep the fire South of Browns Road.
- Keep the fire West of Fall River.
- Keep the fire North of Pit River.

**General Situational Awareness:**

Pit River drainage steep and narrow. Critically dry and receptive fuel beds, active area for fire history and drought-stressed trees.

**5. Site Safety Plan Required?** Yes  No

**Approved Site Safety Plan(s) Located at:**

**6. Incident Action Plan**

<input checked="" type="checkbox"/> ICS 203	<input type="checkbox"/> ICS 215A	<input type="checkbox"/> Phone List	<input checked="" type="checkbox"/> Fire Suppression Repair Plan
<input checked="" type="checkbox"/> ICS 204	<input checked="" type="checkbox"/> ICS 220	<input type="checkbox"/> Training Message	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 205	<input checked="" type="checkbox"/> Incident Map	<input type="checkbox"/> Travel Map	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 206	<input checked="" type="checkbox"/> Weather Forecast	<input type="checkbox"/> Demob Plan	<input type="checkbox"/>
<input checked="" type="checkbox"/> ICS 208	<input checked="" type="checkbox"/> Fire Behavior	<input checked="" type="checkbox"/> Finance Message	<input checked="" type="checkbox"/> ICS 214

<b>7. Prepared By:</b> J. Pangburn	Position/Title: PSC	Signature: <u>Jonathan Pangburn</u>
<b>8. Approved by Incident Commander:</b>	Nick Truax	Signature: <u>NT</u>

ICS 202





Fire Weather Forecast



FORECAST NO: 3
PREDICTION FOR: DAY/NIGHT SHIFT
SHIFT DATE: August 12, 2018
TIME/DATE ISSUED: August 11, 2018 2000 PDT

NAME OF FIRE: Hat
UNIT: CA-SHU
SIGNED: Ryan Walbrun
Incident Meteorologist

WEATHER DISCUSSION: A seasonable weather pattern will be in place today. Afternoon highs into the upper 80s or lower 90s with humidity lowering to the mid teens. Afternoon winds will once again be from the southwest and gusty along Hwy 299. Gusts to 25 mph will be possible late afternoon and early evening hours through sunset. Seasonably cool overnight lows with moderate humidity recovery for any night time mop-up and patrol operations.

WEATHER FORECAST FOR SUNDAY:

WEATHER: Smoke and Haze. Continued seasonably warm and dry. Southwest winds increasing after 1500.

MAX TEMPERATURES: 89-93°F Little change or 1-3 degrees cooler.

MIN HUMIDITY: 11-17%. Little change.

20-FOOT WIND:

VALLEY - Downslope/downvalley 2-5 mph early becoming upslope/upvalley 3-7 mph with gusts to 10 to 12 mph after 1300.

MIDSLOPES/RIDGETOP- SW winds 3-6 gust 8 mph before 1100 increasing to 8-12 gust 20 mph after 1300. Gusts to 25 mph from 1500 thru sunset.

HAINES INDEX: 4 INVERSION: Moderate inversion breaking after 1300

SUNDAY NIGHT:

WEATHER: Breezy through sunset. Hazy and clear with moderate RH recovery.

MIN TEMPERATURES: 59-65°F Little change

MAX HUMIDITY: 32-40% (Trend of 2-5% Wetter)

20-FOOT WIND:

SLOPE/VALLEY - Southwest winds along Hwy 299 5-10 mph gust 15 mph thru sunset. Otherwise becoming downslope 2-5 mph.

RIDGETOP - Southwest 10-15 gust 25 mph through 11 pm then slowly easing overnight.

EXTENDED FORECAST:

MONDAY THROUGH WEDNESDAY: Seasonable weather pattern continues. Mostly sunny. Haze and smoke. Max temps...91-96°F. Min RH 10-20%. Southwest winds during the afternoons. Haines indices will be trending more stable as well with a more stable upper pattern over the region at least through Tuesday. Then becoming more unstable by about Weds.

SAFETY THOUGHT: There is a Fuels and Fire Behavior Advisory in effect for the region. Avoid complacency and monitor for changes in the inversion or smoke changes from nearby fires as skies turn sunny. Heat related issues may be your biggest weather related risk. Drink water to mitigate.

# FIRE BEHAVIOR FORECAST

FORECAST NUMBER: 3	TYPE OF FIRE: Wildland Fire
FIRE NAME: Hat	OPERATIONAL PERIOD: 24hr 8/12 (0700-0700)
DATE ISSUED: 08/11	TIME ISSUED: 2100
UNIT: SHU	SIGNED: D. Boursier FBAN/LTAN

## INPUTS

### WEATHER SUMMARY

**\*\*Hot and Dry with Southwest afternoon winds\*\***  
See Weather Forecast in IAP.

## OUTPUTS

### GENERAL:

Expect varying windows for direct attack versus indirect, as related to flame lengths and rates of speed, based upon forecast wind and smoke coverage.

In the absence of weather conditions outside the forecast or extreme fire behavior conditions expect:

	Max. Flame Length	Max. Rate of Spread	Spotting	Probability of Ignition
Grass	< 5' (1.5m)	40 ch/hr (1.2 km/hr)	< ½ mile (.8 km)	89%
Grass/Shrub Mix	< 5' (1.5m)	20 ch/hr (.6 km/hr)	< ½ mile (.8 km)	89%
Timber Understory	< 8' (2.5m)	10 ch/hr (.2 km/hr)	< ¾ mile (1.2 km)	89%
Timber Litter	< 3' (1m)	5 ch/hr (.1 km/hr)	< ¼ mile (.4 km)	89%

**\*\*minimum safety zone size for brush fuels is ¾ acre (.3 Ha) for a Strike Team of Engines.**

### SPECIFIC:

If fire escapes initial containment lines, expect rapid movement through shallow saddle on the western slope of Saddle Mountain.

Areas considered dormant may flare with afternoon winds.

Expect rapid rates of spread in grass fuels wherever torching and ember cast is seen.

Areas of tactical advantage (water features), normally utilized as barriers to fire spread, may be compromised with afternoon winds via spotting.

New starts will see rapid growth and establishment.

### AIR OPERATIONS:

Anticipate turbulence near Big Valley Mountains to the East.

Mixing height: 8,000 ft. AGL, Transport winds: SW 15-20 mph, Sunrise 0617, Sunset 2014.

### SAFETY

Be aware of not only the "Fire Environment" you are currently in but also the one you are transitioning into..

# Fuels and Fire Behavior Advisory

## Northwestern California

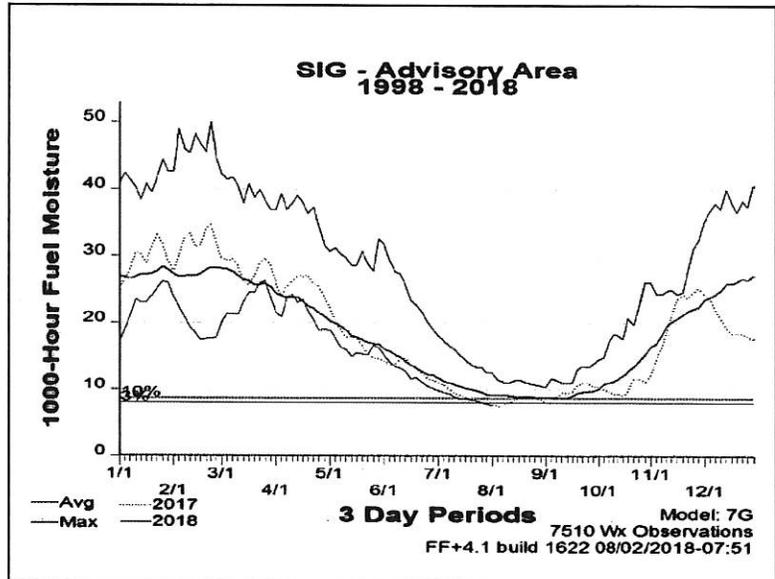
August 3, 2018 – August 17, 2018

**Subject:** Potential for extreme fire behavior and rapid fire spread due to low live and dead fuel moistures and elevated fire danger rating values across much of the northwestern California Predictive Services Areas (PSA).

**Discussion:** A drier than normal rainy season has led to drier than normal fuels and soils across the North Ops region. Wet spring weather was also ideally timed to produce a heavier than normal fine fuel crop at mid and lower elevations and a near to slightly above normal green-up phase among perennial live fuels. Perennial live fuels are also now on their annual drying trend. Now that these fuels are readily available, extreme fire behavior can be expected from continuous fuels independent of topography or wind influences.

### Difference from normal conditions:

The fine fuel crop in the foothills of the eastern Sacramento Valley had reached more than 180% of normal, higher than the 120% reading last year. North Ops' western PSA's 1000-hr fuel moisture charts show heavier fuels are drier than normal and at or below 10th percentile values. In some instances, they are setting new record minimum values. Extreme fire behavior and rapid fire spread have been observed at elevations below 7000 ft. and these conditions will spread to even higher elevations during August.



### Concerns to Firefighters and the Public:

- Any time the fire establishes itself in a continuous fuel bed, large fire growth is highly likely and containment measures may be ineffective.
- Large fire growth and intensity should be expected with any new or on going fires, particularly under critical fire weather conditions. This includes all areas of fire perimeters, even the normally less active flanks and heel.
- Energy Release Component (ERC) values at numerous weather stations have been running well above average. Some are above the 90<sup>th</sup> percentile or setting new record highs. Ignition potential remains very high, and new or spot fires can rapidly grow and outpace suppression efforts.
- Neither previous-year fire scars nor fuel transitions are acting as typically effective fire spread barriers.

### Mitigation Measures:

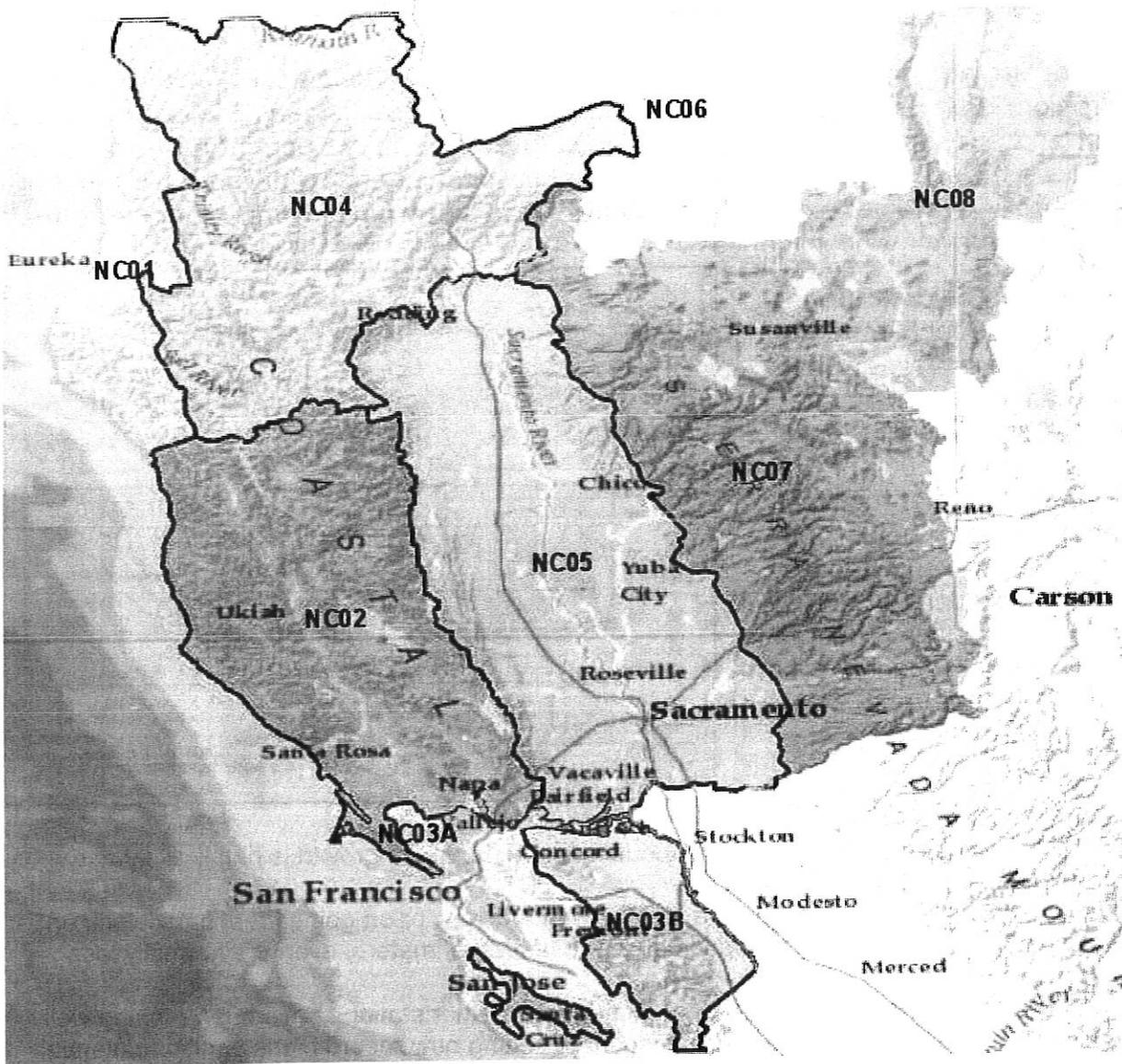
- Brief all incoming resources about these conditions, especially out-of-area resources unfamiliar with local conditions.
- Modify tactics to account for potential high rates of spread and high resistance to control.
- Ensure firefighters have LCES for both direct and indirect tactics, and evaluate hourly.
- Assume that fire growth and behavior may exceed anything previously experienced.

**Area of Concern:** Diablo-Santa Cruz Mountains north through Mid-Coast to Mendocino and Northwest Mountains and east through the Sacramento Valley and Foothills PSA's

# Fuels and Fire Behavior Advisory Northwestern California

August 3, 2018 – August 17, 2018

Issued By: ONCC Predictive Services



Nationally additional Fuels and Fire Behavior Advisories can be found at the following website:  
[Fuels and Fire Behavior Advisories](#)

















# FIRING OPERATION CHECKLIST

Location: \_\_\_\_\_

Date: \_\_\_\_\_ Time: \_\_\_\_\_

Firing Supervisor \_\_\_\_\_

## 1. Personnel Briefing

- Objectives
- Conditions (fire environment)
- Resource assignments identified
  - Firing personnel
  - Holding forces
  - Lookouts
- Ignition plan/sequence
- Communication Plan
- Contingency Plan
- Safety issues

## 2. Go / No-Go

- All personnel briefed
- Weather forecast reviewed
- Resources in place
- Lookouts posted as needed
- Anchor and termination firing points identified
- Communications systems in place
- Fire behavior forecast reviewed
- Escape routes and safety zones established and made known
- Adjoining forces/Air Attack notified

## 3. Approval Prior To Firing

- Division Supervisor
- Branch Director
- Operations

## 4. Other Notifications

- Other: \_\_\_\_\_
- Other: \_\_\_\_\_

Attach Firing Operations Checklist to ICS-214

Rev: Ops Group February 8, 2011

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## GENERAL MESSAGE (ICS 213)

1. Incident Name (Optional):		
2. To (Name and Position):		
3. From (Name and Position):		
4. Subject:	5. Date:	6. Time
7. Message:		
8. Approved by: Name: _____ Signature: _____ Position/Title: _____		
9. Reply:		
10. Replied by: Name: _____ Position/Title: _____ Signature: _____		
ICS 213	Date/Time: _____	

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name		
The responsible Government Officer will complete this form each shift					WATER HAULERS		
Incident or Project Name <b>SOBERANES</b>		Incident Number <b>CABEU 003422</b>		Request Number <b>E-64</b>		Operator #1 <b>SEAN RODGERS</b>	
Agreement Number <b>LNU-22223333</b>				Operator #2 <b>WAYNE RODGERS</b>			
Equipment Make <b>PETERBILT</b>		Equipment Model / Type <b>4000 GALLON</b>		Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
Serial Number <b>11343N</b>		Licence Number <b>6S256483</b>		Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
				Equipment Status			
				<input type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement			
				<input type="checkbox"/> Released by Government			
				<input type="checkbox"/> Withdrawn by Contractor			
Equipment Use					Remarks/Comments **		
(Circle) Hours / Days / Miles					<b>2 OPERATORS</b>		
Date Mo / Day	Start	Stop	Work	Assignment			
7/17	0701	2400	17	DIVISION B			
7/18	0001	0700	7	DIVISION B			
Vendor Rating					Govt. Rep. Name and Position - PRINT		
					STEVE HAMPTON, DIV B		
Met Performance Expectations					Govt. Rep. Signature		
Equipment in Safe Working Condition					STEVE HAMPTON		
Operator Skill Level					Contractor Signature		
Operates Safely					WAYNE RODGERS		
Operator's Cooperation Level					Date		
Overall Performance					Time		
					07/18/12 0800		
* NOTE: Any rating of POOR requires an explanation in Comment Section.					CALFIRE 297		
**Final evaluation or for more documentation, use an ICS Form 230 or equivalent.					(Rev 3-2011)		
Pink - Finance		Blue - Home Unit HE Coordinator		Yellow - Vendor		White - Govt Representative	

EMERGENCY SHIFT TICKET and EVALUATION FORM					Contractor Name		
The responsible Government Officer will complete this form each shift					WE BUILD LINE		
Incident or Project Name <b>WILD</b>		Incident Number <b>CABEU003244</b>		Request Number <b>E-61</b>		Operator #1 <b>JASON FERGUSON</b>	
Agreement Number <b>Obtain from vendor's agreement</b>				Operator #2			
Equipment Make <b>CAT</b>		Equipment Model / Type <b>DOZER D6N</b>		Operator Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
Serial Number <b>3BG0236</b>		Licence Number		Operating Supplies Furnished By: <input checked="" type="checkbox"/> Contractor <input type="checkbox"/> Government			
				Equipment Status			
				<input type="checkbox"/> Inspected <input checked="" type="checkbox"/> Under Agreement			
				<input type="checkbox"/> Released by Government			
				<input type="checkbox"/> Withdrawn by Contractor			
Equipment Use					Remarks/Comments **		
(Circle) Hours / Days / Miles					<b>1 OPERATOR</b>		
Date Mo / Day	Start	Stop	Work	Assignment			
7/17	0001	0700	7	OFF SHIFT			
7/17	0701	1900	12	DIVISION B			
7/17	1901	2400	5	OFF SHIFT			
Vendor Rating					Govt. Rep. Name and Position - PRINT		
					STEVE HAMPTON		
Met Performance Expectations					Govt. Rep. Signature		
Equipment in Safe Working Condition					STEVE HAMPTON		
Operator Skill Level					Contractor Signature		
Operates Safely					JASON FERGUSON		
Operator's Cooperation Level					Date		
Overall Performance					Time		
					07/17/12 2000		
* NOTE: Any rating of POOR requires an explanation in Comment Section.					CALFIRE 297		
**Final evaluation or for more documentation, use an ICS Form 230 or equivalent.					(Rev 3-2011)		
Pink - Finance		Blue - Home Unit HE Coordinator		Yellow - Vendor		White - Govt Representative	

## Narrative

Suppression Repair is conducted under the authority of sections 4675 and 4676 of the Public Resources Code. Suppression Rehabilitation is the necessary and reasonable repairs made and actions taken to minimize the effects of fire suppression activities on state and private property, soil, watercourses, cultural resources, wildlife and fish habitat. The following specifications shall be used in the repair of suppression activity associated with the Hat Incident:

### **Control Lines:**

1. Where excessive berms were formed, back blade or pull berms onto control line surface.
2. Back blade or pull organic debris onto and scatter evenly over control line surface at designated sensitive areas.
3. Construct waterbars on slopes greater than 20% slope.
  - a. Waterbars shall be constructed at 35° - 45° angle to the control line.
  - b. Waterbars shall be constructed to a depth of 6 inches below grade and 6 inches above grade.
  - c. Discharge shall be free of obstruction and where possible, shall discharge into rock, vegetation or other material that will disperse the water and reduce its energy.
  - d. Space waterbars every 75-100 feet on slopes 25 percent or less, 50 feet on slopes 26-50 percent and 30 feet on slopes greater than 50 percent.
4. On out sloped roads, remove lower berm, formed during suppression activity, to allow water to flow off the surface evenly.
5. At access points to dozer lines, scatter brush and other organic material available from suppression activity to hide the entrance and discourage use of the line.

### **Watercourse Crossings and Waterways:**

1. Remove dirt and other debris deposited in the watercourse to allow free flow of water and reduce the movement of material downstream.
2. Re-slope watercourse to original channel shape and location.
3. Notify fire suppression repair specialist of any damage to water diversion devices, such as culverts.

### **Access Roads:**

1. Re-slope all constructed access roads to as natural as shape as existed before their use on the incident.
2. Breach berms according to the spacing standards for waterbars on dozer line.

### **Areas of Special Concern:**

1. Archaeological Site:
  - a. Archaeological sites shall be evaluated for impact and need for State Archaeologist involvement. Sites shall be treated per Archaeological Certified staff or State Archaeologist.

### **General Cleanup:**

1. Collect any and all forms of trash such as plastic water bottles, cardboard, plastic flagging, foodstuffs, wrappers, blown hose and plastic bags **and PACK IT OUT or ARRANGE FOR MATERIAL TO BE FLOWN OUT.**

## **Archaeological and Historical Sites Fireline Guidance for the Hat Incident**

**Do not compromise safety for the protection and preservation of archaeological and historical sites. When feasible and prudent:**

1. Be on the lookout for prehistoric and historic sites. Prehistoric archaeological sites include temporary camps containing scatters of obsidian and/or chert flakes that often look like broken glass. More permanent village sites containing circular depressions (house pits), artifact scatters, and dark brown-black soils (midden). These typically occur on flats near sources of water, along ridgetops and saddles, and other such places suitable for camping. Historic sites include old wooden buildings, structures and corrals, rock foundations, wells, and debris scatters. These kinds of resources can be found in the same kinds of environmental settings as prehistoric camp sites.
2. No archaeological or historical sites have yet been flagged. If you observe artifacts, features, or sites, attempt to avoid dozing or driving through and/or parking on these sites, if feasible, especially with heavy equipment.
3. If you can't avoid sites, minimize disturbance as much as feasible, only clearing the surface to as minimal a depth and width as necessary.
4. Leave all artifacts in place. Some artifacts may have been intentionally placed for religious or ceremonial reasons.
5. When a site is discovered, flag it for visibility and report its location to the Division Supervisor. If feasible, note locations of discovered resources on a map. Better yet, take a GPS reading. Leave information with the Plans Section so that the sites can be relocated and protected during both the suppression and fire suppression repair phases of the Incident.
6. If you encounter a burial or other human remains, cease work in that area immediately and contact the CAL FIRE Archaeologist. State law requires that CAL FIRE then contact the County Coroner, who will then determine if the remains are part of a crime scene. If the Coroner determines that the remains are Native American, State law requires the Coroner to contact the Native American Heritage Commission in Sacramento.



